

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S11	11	(tyrosine adj phosphatase\$1 or ptp\$2 or rptp\$1) same (gmc\$2 or mesangial)	US-PGPUB; USPAT	OR	OFF	2005/06/17 14:55

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 18:08:13 ON 07 JUL 2005

=> fil .bec,canc

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,  
ESBIOBASE, BIOTECHNO, WPIDS, CANCERLIT' ENTERED AT 18:08:21 ON 07 JUL 2005  
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

12 FILES IN THE FILE LIST

=> s tyrosine phosphatase# or ptp? or rptp

FILE 'MEDLINE'

107999 TYROSINE

108600 PHOSPHATASE#

8123 TYROSINE PHOSPHATASE#

(TYROSINE(W) PHOSPHATASE#)

3978 PTP?

164 RPTP

L1 9637 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'SCISEARCH'

103177 TYROSINE

72867 PHOSPHATASE#

8928 TYROSINE PHOSPHATASE#

(TYROSINE(W) PHOSPHATASE#)

4618 PTP?

306 RPTP

L2 11044 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'LIFESCI'

31083 "TYROSINE"

22786 PHOSPHATASE#

2666 TYROSINE PHOSPHATASE#

("TYROSINE" (W) PHOSPHATASE#)

1369 PTP?

110 RPTP

L3 3172 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'BIOTECHDS'

3447 TYROSINE

4417 PHOSPHATASE#

252 TYROSINE PHOSPHATASE#

(TYROSINE(W) PHOSPHATASE#)

338 PTP?

10 RPTP

L4 487 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'BIOSIS'

109136 TYROSINE

113185 PHOSPHATASE#

7165 TYROSINE PHOSPHATASE#

(TYROSINE(W) PHOSPHATASE#)

4237 PTP?

226 RPTP

L5 9114 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'EMBASE'

87060 "TYROSINE"

80229 PHOSPHATASE#  
 6740 TYROSINE PHOSPHATASE#  
       ("TYROSINE" (W) PHOSPHATASE#)  
 3628 PTP?  
       244 RPTP  
 L6      8206 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'HCAPLUS'  
       142391 TYROSINE  
       122064 PHOSPHATASE#  
       7804 TYROSINE PHOSPHATASE#  
           (TYROSINE (W) PHOSPHATASE#)  
       5821 PTP?  
       313 RPTP  
 L7      10800 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'NTIS'  
       993 TYROSINE  
       747 PHOSPHATASE#  
       37 TYROSINE PHOSPHATASE#  
           (TYROSINE (W) PHOSPHATASE#)  
       90 PTP?  
       6 RPTP  
 L8      115 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'ESBIOBASE'  
       42955 TYROSINE  
       28231 PHOSPHATASE#  
       4200 TYROSINE PHOSPHATASE#  
           (TYROSINE (W) PHOSPHATASE#)  
       2444 PTP?  
       209 RPTP  
 L9      5117 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'BIOTECHNO'  
       36754 TYROSINE  
       25111 PHOSPHATASE#  
       3596 TYROSINE PHOSPHATASE#  
           (TYROSINE (W) PHOSPHATASE#)  
       1728 PTP?  
       140 RPTP  
 L10     4056 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'WPIDS'  
       7338 TYROSINE  
       4938 PHOSPHATASE#  
       532 TYROSINE PHOSPHATASE#  
           (TYROSINE (W) PHOSPHATASE#)  
       767 PTP?  
       16 RPTP  
 L11     1055 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

FILE 'CANCERLIT'  
       32265 TYROSINE  
       21517 PHOSPHATASE#  
       2379 TYROSINE PHOSPHATASE#  
           (TYROSINE (W) PHOSPHATASE#)  
       899 PTP?  
       25 RPTP  
 L12     2646 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

TOTAL FOR ALL FILES  
 L13     65449 TYROSINE PHOSPHATASE# OR PTP? OR RPTP

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=> s l13 and (gmc? or mesangial)
FILE 'MEDLINE'
      870 GMC?
      8832 MESANGIAL
L14      41 L1 AND (GMC? OR MESANGIAL)

FILE 'SCISEARCH'
      1992 GMC?
      12720 MESANGIAL
L15      67 L2 AND (GMC? OR MESANGIAL)

FILE 'LIFESCI'
      203 GMC?
      1040 MESANGIAL
L16      3 L3 AND (GMC? OR MESANGIAL)

FILE 'BIOTECHDS'
      72 GMC?
      110 MESANGIAL
L17      3 L4 AND (GMC? OR MESANGIAL)

FILE 'BIOSIS'
      1058 GMC?
      12579 MESANGIAL
L18      42 L5 AND (GMC? OR MESANGIAL)

FILE 'EMBASE'
      837 GMC?
      8099 MESANGIAL
L19      24 L6 AND (GMC? OR MESANGIAL)

FILE 'HCAPLUS'
      2444 GMC?
      6047 MESANGIAL
L20      40 L7 AND (GMC? OR MESANGIAL)

FILE 'NTIS'
      144 GMC?
      8 MESANGIAL
L21      0 L8 AND (GMC? OR MESANGIAL)

FILE 'ESBIOBASE'
      462 GMC?
      2883 MESANGIAL
L22      16 L9 AND (GMC? OR MESANGIAL)

FILE 'BIOTECHNO'
      288 GMC?
      2038 MESANGIAL
L23      13 L10 AND (GMC? OR MESANGIAL)

FILE 'WPIDS'
      123 GMC?
      342 MESANGIAL
L24      5 L11 AND (GMC? OR MESANGIAL)

FILE 'CANCERLIT'
      234 GMC?
      1658 MESANGIAL
L25      11 L12 AND (GMC? OR MESANGIAL)

TOTAL FOR ALL FILES
L26      265 L13 AND (GMC? OR MESANGIAL)

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=> s 126 not 2002-2005/py
FILE 'MEDLINE'
      1999701 2002-2005/PY
L27      27 L14 NOT 2002-2005/PY

FILE 'SCISEARCH'
      3698139 2002-2005/PY
      (20020000-20059999/PY)
L28      52 L15 NOT 2002-2005/PY

FILE 'LIFESCI'
      331280 2002-2005/PY
L29      3 L16 NOT 2002-2005/PY

FILE 'BIOTECHDS'
      86474 2002-2005/PY
L30      0 L17 NOT 2002-2005/PY

FILE 'BIOSIS'
      1680530 2002-2005/PY
L31      32 L18 NOT 2002-2005/PY

FILE 'EMBASE'
      1698717 2002-2005/PY
L32      19 L19 NOT 2002-2005/PY

FILE 'HCAPLUS'
      3780316 2002-2005/PY
L33      24 L20 NOT 2002-2005/PY

FILE 'NTIS'
      46505 2002-2005/PY
L34      0 L21 NOT 2002-2005/PY

FILE 'ESBIOBASE'
      1030051 2002-2005/PY
L35      11 L22 NOT 2002-2005/PY

FILE 'BIOTECHNO'
      244553 2002-2005/PY
L36      12 L23 NOT 2002-2005/PY

FILE 'WPIDS'
      3527062 2002-2005/PY
L37      0 L24 NOT 2002-2005/PY

FILE 'CANCERLIT'
      59358 2002-2005/PY
L38      9 L25 NOT 2002-2005/PY

TOTAL FOR ALL FILES
L39      189 L26 NOT 2002-2005/PY
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=> dup rem 139
PROCESSING COMPLETED FOR L39
L40      84 DUP REM L39 (105 DUPLICATES REMOVED)
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=> d tot
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```
L40 ANSWER 1 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on
STN DUPLICATE 1
TI Endothelin-1 induces serine phosphorylation of the adaptor protein
p66(Shc) and its association with 14-3-3 protein in glomerular
mesangial cells
```

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (13 JUL 2001) Vol. 276, No. 28, pp. 26640-26647.  
ISSN: 0021-9258.

AU Foschi M (Reprint); Franchi F; Han J H; La Villa G; Sorokin A  
AN 2001:563027 SCISEARCH

L40 ANSWER 2 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Down-regulation of interleukin-3/granulocyte-macrophage colony-stimulating factor receptor  $\beta$ -chain in BCR-ABL+ human leukemic cells: association with loss of cytokine-mediated Stat-5 activation and protection from apoptosis after BCR-ABL inhibition  
SO Blood (2001), 97(9), 2846-2853  
CODEN: BLOOAW; ISSN: 0006-4971  
AU Donato, Nicholas J.; Wu, Ji Y.; Zhang, Ling; Kantarjian, Hagop; Talpaz, Moshe  
AN 2001:330207 HCAPLUS  
DN 135:105635

L40 ANSWER 3 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Nitric oxide increases albumin permeability of isolated rat glomeruli via a phosphorylation-dependent mechanism  
SO JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY, (DEC 2001) Vol. 12, No. 12, pp. 2616-2624.  
ISSN: 1046-6673.  
AU Li B; Yao R; Morioka T; Oite T (Reprint)  
AN 2001:964593 SCISEARCH

L40 ANSWER 4 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Vascular endothelial growth factor effects on nuclear factor-kappa B activation in hematopoietic progenitor cells  
SO CANCER RESEARCH, (1 MAR 2001) Vol. 61, No. 5, pp. 2015-2021.  
ISSN: 0008-5472.  
AU Dikov M M; Oyama T; Cheng P Y; Takahashi T; Takahashi K; Sepetavec T; Edwards B; Adachi Y; Nadaf S; Daniel T; Gabrilovich D I; Carbone D P (Reprint)  
AN 2001:253096 SCISEARCH

L40 ANSWER 5 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Distinct domains of the human granulocyte-macrophage colony-stimulating factor receptor  $\alpha$  subunit mediate activation of Jak/Stat signaling and differentiation  
SO Blood (2001), 97(6), 1662-1670  
CODEN: BLOOAW; ISSN: 0006-4971  
AU Lilly, Michael B.; Zemskova, Marina; Frankel, Arthur E.; Salo, Jonathan; Kraft, Andrew S.  
AN 2001:212660 HCAPLUS  
DN 134:261335

L40 ANSWER 6 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Unexpected transcriptional induction of monocyte chemoattractant protein 1 by proteasome inhibition: Involvement of the c-Jun N-terminal kinase-activator protein 1 pathway  
SO JOURNAL OF IMMUNOLOGY, (1 AUG 2001) Vol. 167, No. 3, pp. 1145-1150.  
ISSN: 0022-1767.  
AU Nakayama K; Furusu A; Xu Q H; Konta T; Kitamura M (Reprint)  
AN 2001:747528 SCISEARCH

L40 ANSWER 7 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI Podocyte proteins in Galloway-Mowat syndrome  
SO PEDIATRIC NEPHROLOGY, (DEC 2001) Vol. 16, No. 12, pp. 1022-1029.

ISSN: 0931-041X.

AU Srivastava T; Whiting J M; Garola R E; Dasouki M J; Ruotsalainen V;  
Tryggvason K; Hamed R; Alon U S (Reprint)  
AN 2002:59902 SCISEARCH

L40 ANSWER 8 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN  
TI IGF-I suppresses collagen alpha1(I) and alpha2(I) mRNA expression via  
**PTPase** in pre-adhered **mesangial** cells.

SO Journal of the American Society of Nephrology, (September, 2001) Vol. 12,  
No. Program and Abstract Issue, pp. 707A. print.  
Meeting Info.: ASN (American Society of Nephrology)/ISN (International  
Society of Nephrology) World Congress of Nephrology. San Francisco, CA,  
USA. October 10-17, 2001.  
CODEN: JASNEU. ISSN: 1046-6673.

AU Kanda, Hiroko [Reprint author]; Hamasaki, Ken [Reprint author]; Kubo,  
Kanae [Reprint author]; Tateishi, Akiko [Reprint author]; Yonezumi, Aki  
[Reprint author]; Yamamoto, Kazuhiko [Reprint author]; Fujita, Toshiro  
[Reprint author]; Takahashi, Shinichiro; Mimura, Toshihide [Reprint  
author]

AN 2002:320750 BIOSIS

L40 ANSWER 9 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

TI p38 MAPK and MAPK kinase 3/6 mRNA and activities are increased in early  
diabetic glomeruli

SO KIDNEY INTERNATIONAL, (AUG 2001) Vol. 60, No. 2, pp. 543-552.  
ISSN: 0085-2538.

AU Kang S W; Adler S G; LaPage J; Natarajan R (Reprint)  
AN 2001:609537 SCISEARCH

L40 ANSWER 10 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN

TI Analysis of signals and functions of the chimeric human  
granulocyte-macrophage colony-stimulating factor receptor in BA/F3 cells  
and transgenic mice

SO Journal of Immunology (2000), 164(7), 3635-3644  
CODEN: JOIMA3; ISSN: 0022-1767

AU Watanabe, Sumiko; Aoki, Yutaka; Nishijima, Ichiko; Xu, Ming-Jiang; Arai,  
Ken-Ichi

AN 2000:217923 HCAPLUS  
DN 133:3558

L40 ANSWER 11 OF 84 MEDLINE on STN DUPLICATE 2

TI Extracellular signal-regulated kinase mediates stimulation of TGF-beta1  
and matrix by high glucose in **mesangial** cells.

SO Journal of the American Society of Nephrology : JASN, (2000 Dec) 11 (12)  
2222-30.

Journal code: 9013836. ISSN: 1046-6673.

AU Isono M; Cruz M C; Chen S; Hong S W; Ziyadeh F N  
AN 2001104472 MEDLINE

L40 ANSWER 12 OF 84 MEDLINE on STN DUPLICATE 3

TI Angiotensin II type 2 receptors stimulate collagen synthesis in cultured  
vascular smooth muscle cells.

SO Hypertension, (2000 Nov) 36 (5) 845-50.  
Journal code: 7906255. ISSN: 1524-4563.

AU Mifune M; Sasamura H; Shimizu-Hirota R; Miyazaki H; Saruta T  
AN 2001059665 MEDLINE

L40 ANSWER 13 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN

TI Cross-talk between B2-kinin, IGF-1 and VEGF receptors stimulation in rat  
isolated glomeruli and **mesangial** cells.

SO Journal of the American Society of Nephrology, (September, 2000) Vol. 11,  
No. Program and Abstract Issue, pp. 418A. print.

Meeting Info.: 33rd Annual Meeting of the American Society of Nephrology and the 2000 Renal Week. Toronto, Ontario, Canada. October 10-16, 2000. American Society of Nephrology.  
CODEN: JASNEU. ISSN: 1046-6673.

AU Cellier, Eric [Reprint author]; Alric, Celine [Reprint author]; Pecher, Christiane [Reprint author]; Bascands, Jean-Loup [Reprint author]; Girolami, Jean-Pierre [Reprint author]

AN 2002:243550 BIOSIS

L40 ANSWER 14 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI 5-Hydroxytryptamine(1A) receptor/G(i)beta gamma stimulates mitogen-activated protein kinase via NAD(P)H oxidase and reactive oxygen species upstream of Src in Chinese hamster ovary fibroblasts

SO BIOCHEMICAL JOURNAL, (1 APR 2000) Vol. 347, Part 1, pp. 61-67.  
ISSN: 0264-6021.

AU Mukhin Y V; Garnovskaya M N; Collinsworth G; Pendergrass D; Magai T; Pinckney S; Greene E L; Raymond J R (Reprint)

AN 2000:340477 SCISEARCH

L40 ANSWER 15 OF 84 MEDLINE on STN DUPLICATE 4

TI Expression of mitogen-activated protein kinase family in rat renal development.

SO Kidney international, (2000 Jul) 58 (1) 27-37.  
Journal code: 0323470. ISSN: 0085-2538.

AU Omori S; Hida M; Ishikura K; Kuramochi S; Awazu M

AN 2000405999 MEDLINE

L40 ANSWER 16 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Serine 19 of human 6-pyruvoyltetrahydropterin synthase is phosphorylated by cGMP protein kinase II

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (29 OCT 1999) Vol. 274, No. 44, pp. 31341-31348.  
ISSN: 0021-9258.

AU Scherer-Oppliger T; Leimbacher W; Blau N; Thony B (Reprint)

AN 1999:834972 SCISEARCH

L40 ANSWER 17 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Evidence for a calpeptin-sensitive protein-**tyrosine phosphatase** upstream of the small GTPase Rho - A novel role for the calpain inhibitor calpeptin in the inhibition of protein-**tyrosine phosphatases**

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (14 MAY 1999) Vol. 274, No. 20, pp. 14359-14367.  
ISSN: 0021-9258.

AU Schoenwaelder S M (Reprint); Burridge K

AN 1999:384309 SCISEARCH

L40 ANSWER 18 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Mitogen-activated protein kinase phosphatase-1 (MKP-1) expression is induced by low oxygen conditions found in solid tumor microenvironments - A candidate MKP for the inactivation of hypoxia-inducible stress-activated protein kinase/c-Jun N-terminal protein kinase activity

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (30 APR 1999) Vol. 274, No. 18, pp. 12890-12897.  
ISSN: 0021-9258.

AU Laderoute K R (Reprint); Mendonca H L; Calaoagan J M; Knapp A M; Giaccia A J; Stork P J S

AN 1999:350082 SCISEARCH

L40 ANSWER 19 OF 84 MEDLINE on STN



TI Cell division genes promote asymmetric interaction between Numb and Notch  
in the Drosophila CNS.  
SO Development (Cambridge, England), (1999 Jun) 126 (12) 2759-70.  
Journal code: 8701744. ISSN: 0950-1991.  
AU Wai P; Truong B; Bhat K M  
AN 1999265948 MEDLINE

L40 ANSWER 20 OF 84 MEDLINE on STN DUPLICATE 5  
TI Endothelial localization of receptor **tyrosine  
phosphatase**, ECRTP/DEP-1, in developing and mature renal  
vasculature.  
SO Journal of the American Society of Nephrology : JASN, (1999 Oct) 10 (10)  
2135-45.  
Journal code: 9013836. ISSN: 1046-6673.  
AU Takahashi T; Takahashi K; Mernaugh R; Drozdoff V; Sipe C; Schoecklmann H;  
Robert B; Abrahamson D R; Daniel T O  
AN 1999433509 MEDLINE

L40 ANSWER 21 OF 84 MEDLINE on STN DUPLICATE 6  
TI Nitric oxide and superoxide inhibit platelet-derived growth factor  
receptor phosphotyrosine phosphatases.  
SO Free radical biology & medicine, (1999 Jun) 26 (11-12) 1544-53.  
Journal code: 8709159. ISSN: 0891-5849.  
AU Callsen D; Sandau K B; Brune B  
AN 1999329864 MEDLINE

L40 ANSWER 22 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Nitric oxide and superoxide inhibit platelet-derived growth factor  
receptor phosphotyrosine phosphatases  
SO Free Radical Biology & Medicine (1999), 22(11/12), 1544-1553  
CODEN: FRBMEH; ISSN: 0891-5849  
AU Callsen, Dagmar; Sandau, Katrin B.; Brune, Bernhard  
AN 1999:416085 HCAPLUS  
DN 131:180190

L40 ANSWER 23 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN  
TI Expression of granulocyte colony-stimulating factor- and  
granulocyte-macrophage colony-stimulating factor-associated signal  
transduction proteins of the JAK/STAT pathway in normal granulopoiesis and  
in blast cells of acute myelogenous leukemia  
SO Experimental Hematology (New York) (1999), 27(5), 885-894  
CODEN: EXHMA6; ISSN: 0301-472X  
AU Biethahn, Silke; Alves, Frauke; Wilde, Sabine; Hiddemann, Wolfgang;  
Spiekermann, Karsten  
AN 1999:371246 HCAPLUS  
DN 131:168496

L40 ANSWER 24 OF 84 MEDLINE on STN DUPLICATE 7  
TI Activation of STAT1 alpha by phosphatase inhibitor vanadate in glomerular  
**mesangial** cells: involvement of tyrosine and serine  
phosphorylation.  
SO Journal of receptor and signal transduction research, (1999 Sep) 19 (5)  
865-84.  
Journal code: 9509432. ISSN: 1079-9893.  
AU Bardgette J; Abboud H E; Choudhury G G  
AN 1999279216 MEDLINE

L40 ANSWER 25 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI Angiotensin II receptors.  
SO Journal of the American Society of Nephrology, (Jan., 1999) Vol. 10, No.  
SUPPL. 11, pp. 830-839. print.  
CODEN: JASNEU. ISSN: 1046-6673.  
AU Ardaillou, Raymond [Reprint author]

AN 1999:86005 BIOSIS

L40 ANSWER 26 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI Mechanisms of mitogen-activated protein kinase activation in experimental  
diabetes  
SO JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY, (APR 1999) Vol. 10, No. 4,  
pp. 738-745.  
ISSN: 1046-6673.  
AU Awazu M (Reprint); Ishikura K; Hida M; Hoshiya M  
AN 1999:252665 SCISEARCH

L40 ANSWER 27 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI High glucose alters the response of **mesangial** cell protein  
kinase C isoforms to endothelin-1  
SO KIDNEY INTERNATIONAL, (FEB 1999) Vol. 55, No. 2, pp. 486-499.  
ISSN: 0085-2538.  
AU Glogowski E A; Tsiani E; Zhou X P; Fantus I G; Whiteside C (Reprint)  
AN 1999:81094 SCISEARCH

L40 ANSWER 28 OF 84 MEDLINE on STN DUPLICATE 8  
TI Resistance to TNF-alpha cytotoxicity can be achieved through different  
signaling pathways in rat **mesangial** cells.  
SO American journal of physiology, (1999 Feb) 276 (2 Pt 1) C435-41.  
Journal code: 0370511. ISSN: 0002-9513.  
AU Guo Y L; Kang B; Williamson J R  
AN 1999137572 MEDLINE

L40 ANSWER 29 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN  
TI The effects of GM-CSF, steel factor and MIP-1 alpha on the expression and  
activation of Cdc25A phosphatase in Mo7e cells  
SO CYTOKINES CELLULAR & MOLECULAR THERAPY, (SEP 1999) Vol. 5, No. 3, pp.  
129-138.  
ISSN: 1368-4736.  
AU Reid S; Broxmeyer H E (Reprint)  
AN 1999:796047 SCISEARCH

L40 ANSWER 30 OF 84 MEDLINE on STN DUPLICATE 9  
TI Effect of bradykinin on tyrosine kinase and phosphatase activities and  
cell proliferation in **mesangial** cells.  
SO Immunopharmacology, (1999 Dec) 45 (1-3) 57-62.  
Journal code: 7902474. ISSN: 0162-3109.  
AU Alric C; Pecher C; Bascands J L; Girolami J P  
AN 2000080653 MEDLINE

L40 ANSWER 31 OF 84 MEDLINE on STN DUPLICATE 10  
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SO Journal of the American Society of Nephrology : JASN, (1999 Jan) 10 Suppl  
11 S30-9. Ref: 105  
Journal code: 9013836. ISSN: 1046-6673.  
AU Ardaillou R  
AN 1999107156 MEDLINE

L40 ANSWER 32 OF 84 BIOTECHNO COPYRIGHT 2005 Elsevier Science B.V. on STN  
TI Angiotensin II receptors  
SO Journal of the American Society of Nephrology, (1999), 10/1 SUPPL. 11  
(S30-S39), 105 reference(s)  
CODEN: JASNEU ISSN: 1046-6673  
AU Ardaillou R.  
AN 1999:29038162 BIOTECHNO

L40 ANSWER 33 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on

STN

TI Mitogen-activated protein kinase phosphatase: a negative regulator of the  
mitogen-activated protein kinase cascade  
SO EUROPEAN JOURNAL OF PHARMACOLOGY, (15 JAN 1999) Vol. 365, No. 1, pp. 1-7.  
ISSN: 0014-2999.  
AU Haneda M (Reprint); Sugimoto T; Kikkawa R  
AN 1999:91583 SCISEARCH

L40 ANSWER 34 OF 84 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.  
on STN

TI Angiotensin II receptors.  
SO Journal of the American Society of Nephrology, (1999) Vol. 10, No. 1  
SUPPL. 11, pp. S30-S39.  
Refs: 105  
ISSN: 1046-6673 CODEN: JASNEU  
AU Ardaillou R.  
AN 1999029648 EMBASE

L40 ANSWER 35 OF 84 MEDLINE on STN DUPLICATE 11  
TI Proliferating and migrating **mesangial** cells responding to injury  
express a novel receptor protein-**tyrosine phosphatase**  
in experimental **mesangial** proliferative glomerulonephritis.  
SO Journal of biological chemistry, (1998 Sep 11) 273 (37) 23929-37.  
Journal code: 2985121R. ISSN: 0021-9258.  
AU Wright M B; Hugo C; Seifert R; Distecche C M; Bowen-Pope D F  
AN 1998395110 MEDLINE

L40 ANSWER 36 OF 84 MEDLINE on STN DUPLICATE 12  
TI Inhibition of the expression of mitogen-activated protein phosphatase-1  
potentiates apoptosis induced by tumor necrosis factor-alpha in rat  
**mesangial** cells.  
SO Journal of biological chemistry, (1998 Apr 24) 273 (17) 10362-6.  
Journal code: 2985121R. ISSN: 0021-9258.  
AU Guo Y L; Kang B; Williamson J R  
AN 1998221169 MEDLINE

L40 ANSWER 37 OF 84 MEDLINE on STN DUPLICATE 13  
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L40 ANSWER 38 OF 84 MEDLINE on STN DUPLICATE 14  
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L40 ANSWER 39 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 40 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 41 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 45 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 46 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN  
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L40 ANSWER 47 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 49 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 50 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 51 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 52 OF 84 MEDLINE on STN DUPLICATE 17

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L40 ANSWER 54 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 58 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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regulate STAT1 in cultured **mesangial** cells (MC).

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L40 ANSWER 60 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
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regulate STAT1 in cultured **mesangial** cells (MC).

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L40 ANSWER 61 OF 84 MEDLINE on STN DUPLICATE 20

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L40 ANSWER 62 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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L40 ANSWER 64 OF 84 MEDLINE on STN DUPLICATE 21

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83-8. Ref: 46

Journal code: 0425076. ISSN: 0305-1870.

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in glomerulonephritis.

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L40 ANSWER 66 OF 84 MEDLINE on STN DUPLICATE 23

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expression induced by interleukin-1, tumor necrosis factor-alpha, and  
lipopolysaccharide.

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Journal code: 7802877. ISSN: 0021-9738.

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L40 ANSWER 67 OF 84 MEDLINE on STN DUPLICATE 24

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L40 ANSWER 68 OF 84 MEDLINE on STN DUPLICATE 25

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L40 ANSWER 69 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN

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in glomerulonephritis

SO Kidney International (1995), 48(6), 1220-8  
CODEN: KDYIA5; ISSN: 0085-2538

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AN 1996:47032 HCAPLUS  
DN 124:142722

L40 ANSWER 70 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
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protein **tyrosine phosphatase** (PTPase) in  
experimental proliferative glomerulonephritis.

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CODEN: JASNEU. ISSN: 1046-6673.

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Ghosh; Abboud, Hanna E.  
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L40 ANSWER 71 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 26



TI A MATRIX-INDUCED **MESANGIAL** CELL MORPHOGENIC PROGRAM THAT  
 GENERATES AN ORGANOTYPIC PHENOTYPE REQUIRES **TYROSINE**  
**PHOSPHATASE** (TP) ACTIVITY  
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 Sp. iss. SI, pp. 863-863.  
 ISSN: 1046-6673.  
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 AN 1995:710027 SCISEARCH

L40 ANSWER 72 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN  
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 CODEN: IGAYAY; ISSN: 0039-2359  
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 AN 1995:680578 HCAPLUS  
 DN 123:81073

L40 ANSWER 73 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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 DURING NORADRENALINE STIMULATION - INVOLVEMENT OF BOTH G-PROTEIN AND  
 TYROSINE-PHOSPHORYLATION-LINKED PATHWAYS  
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 ISSN: 0264-6021.  
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 AN 1995:372136 SCISEARCH

L40 ANSWER 74 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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**-PHOSPHATASE (PTPASE)** IN **MESANGIAL** CELLS  
 (MC) AND THE GLOMERULUS IN EXPERIMENTAL GLOMERULONEPHRITIS (GN)  
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 ISSN: 1046-6673.  
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 AN 1994:616542 SCISEARCH

L40 ANSWER 75 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
 STN DUPLICATE 28  
 TI PHORBOL-MYRISTATE ACETATE (PMA)-INDUCED INHIBITION OF THE CYTOPLASMIC  
**TYROSINE PHOSPHATASE PTP1B** ENHANCES TYROSINE  
 PHOSPHORYLATION IN HUMAN **MESANGIAL** CELLS (HMC)  
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 ISSN: 1046-6673.  
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L40 ANSWER 76 OF 84 MEDLINE on STN DUPLICATE 29  
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L40 ANSWER 77 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
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AN 1994:417754 BIOSIS

L40 ANSWER 78 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
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TI ANGIOTENSIN-AT(2) RECEPTOR-MEDIATED INHIBITION OF PARTICULATE  
GUANYLATE-CYCLASE - A LINK WITH PROTEIN-**TYROSINE-**  
**PHOSPHATASE** STIMULATION

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ISSN: 1060-6823.

AU BRECHLER V (Reprint); LEVENS N R; DEGASPARO M; BOTTARI S P

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L40 ANSWER 79 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on  
STN DUPLICATE 30

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CULTURED **MESANGIAL** CELLS

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ISSN: 0009-9279.

AU FOUQUERAY B (Reprint); KIYOMOTO H; GHOSHCHOU DHURY G; ABBOUD H E

AN 1994:9283 SCISEARCH

L40 ANSWER 80 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
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TI Involvement of protein **tyrosine phosphatases** in human  
**mesangial** cell early signalling.

SO Journal of the American Society of Nephrology, (1993) Vol. 4, No. 3, pp.  
486.

Meeting Info.: 26th Annual Meeting of the ASN (American Society of  
Nephrology). Boston, Massachusetts, USA. November 14-17, 1993.

CODEN: JASNEU. ISSN: 1046-6673.

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Purba; Wenzel, Ulrich; Abboud, Hanna E.

AN 1993:513222 BIOSIS

L40 ANSWER 81 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN

TI The cDNA cloning, characterization, and expression of a novel protein  
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SO Osaka Daigaku Igaku Zasshi (1993), 45(4), 377-86

CODEN: ODIZAK; ISSN: 0369-710X

AU Kawanishi, Sachio

AN 1993:598448 HCAPLUS

DN 119:198448

L40 ANSWER 82 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on  
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TI A NOVEL PROTEIN-**TYROSINE PHOSPHATASE PTPASE**  
IN RAT KIDNEY CDNA CLONING AND GENE REGULATION BY ILS AND ANGIOTENSIN II  
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497.

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CODEN: JASNEU. ISSN: 1046-6673.

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INOUE T; NOGUCHI T; TANAKA T; KAMADA T; UEDA N

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L40 ANSWER 83 OF 84 MEDLINE on STN DUPLICATE 31

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SO Biochemical and biophysical research communications, (1992 Oct 15) 188 (1) 34-9.  
Journal code: 0372516. ISSN: 0006-291X.

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L40 ANSWER 84 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI A PROTEIN-**TYROSINE PHOSPHATASE PTP** GENE  
EXPRESSION IS REGULATED DIFFERENTLY BY INTERLEUKINS ILS AND ANGIOTENSIN II AII IN CULTURED RAT **MESANGIAL** CELLS.

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Meeting Info.: 24TH ANNUAL MEETING OF THE AMERICAN SOCIETY OF NEPHROLOGY (ASN), BALTIMORE, MARYLAND, USA, NOVEMBER 17-20, 1991. J AM SOC NEPHROL. CODEN: JASNEU. ISSN: 1046-6673.

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AN 1992:66742 BIOSIS

=> save temp l40 gmcl/a  
ANSWER SET L40 HAS BEEN SAVED AS 'GMC1/A'

=> log y		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	224.81	225.02

STN INTERNATIONAL LOGOFF AT 18:11:26 ON 07 JUL 2005

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 11:21:32 ON 11 JUL 2005

=> fil .bec		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIODASE, BIOTECHNO, WPIDS' ENTERED AT 11:21:52 ON 11 JUL 2005  
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11 FILES IN THE FILE LIST

=> act gmcl/a

L1 ( 9637)SEA FILE=MEDLINE ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L2 ( 11044)SEA FILE=SCISEARCH ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L3 ( 3172)SEA FILE=LIFESCI ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L4 ( 487)SEA FILE=BIOTECHDS ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L5 ( 9114)SEA FILE=BIOSIS ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L6 ( 8206)SEA FILE=EMBASE ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L7 ( 10800)SEA FILE=HCAPLUS ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L8 ( 115)SEA FILE=NTIS ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L9 ( 5117)SEA FILE=ESBIODASE ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L10 ( 4056)SEA FILE=BIOTECHNO ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L11 ( 1055)SEA FILE=WPIDS ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L12 ( 2646)SEA FILE=CANCERLIT ABB=ON TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L13 ( 65449)SEA TYROSINE PHOSPHATASE# OR PTP? OR RPTP

L14 ( 41)SEA FILE=MEDLINE ABB=ON L1 AND (GMC? OR MESANGIAL)

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L15 (      67)SEA FILE=SCISEARCH ABB=ON  L2 AND (GMC? OR MESANGIAL)
L16 (      3)SEA FILE=LIFESCI ABB=ON  L3 AND (GMC? OR MESANGIAL)
L17 (      3)SEA FILE=BIOTECHDS ABB=ON  L4 AND (GMC? OR MESANGIAL)
L18 (     42)SEA FILE=BIOSIS ABB=ON  L5 AND (GMC? OR MESANGIAL)
L19 (     24)SEA FILE=EMBASE ABB=ON  L6 AND (GMC? OR MESANGIAL)
L20 (     40)SEA FILE=HCAPLUS ABB=ON  L7 AND (GMC? OR MESANGIAL)
L21 (      0)SEA FILE=NTIS ABB=ON  L8 AND (GMC? OR MESANGIAL)
L22 (     16)SEA FILE=ESBIOBASE ABB=ON  L9 AND (GMC? OR MESANGIAL)
L23 (     13)SEA FILE=BIOTECHNO ABB=ON  L10 AND (GMC? OR MESANGIAL)
L24 (      5)SEA FILE=WPIDS ABB=ON  L11 AND (GMC? OR MESANGIAL)
L25 (     11)SEA FILE=CANCERLIT ABB=ON  L12 AND (GMC? OR MESANGIAL)
L26 (    265)SEA L13 AND (GMC? OR MESANGIAL)
L27 (     27)SEA FILE=MEDLINE ABB=ON  L14 NOT 2002-2005/PY
L28 (     52)SEA FILE=SCISEARCH ABB=ON  L15 NOT 2002-2005/PY
L29 (      3)SEA FILE=LIFESCI ABB=ON  L16 NOT 2002-2005/PY
L30 (      0)SEA FILE=BIOTECHDS ABB=ON  L17 NOT 2002-2005/PY
L31 (     32)SEA FILE=BIOSIS ABB=ON  L18 NOT 2002-2005/PY
L32 (     19)SEA FILE=EMBASE ABB=ON  L19 NOT 2002-2005/PY
L33 (     24)SEA FILE=HCAPLUS ABB=ON  L20 NOT 2002-2005/PY
L34 (      0)SEA FILE=NTIS ABB=ON  L21 NOT 2002-2005/PY
L35 (     11)SEA FILE=ESBIOBASE ABB=ON  L22 NOT 2002-2005/PY
L36 (     12)SEA FILE=BIOTECHNO ABB=ON  L23 NOT 2002-2005/PY
L37 (      0)SEA FILE=WPIDS ABB=ON  L24 NOT 2002-2005/PY
L38 (      9)SEA FILE=CANCERLIT ABB=ON  L25 NOT 2002-2005/PY
L39 (    189)SEA L26 NOT 2002-2005/PY
L40      84 DUP REM L39 (105 DUPLICATES REMOVED)

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=> d ab 17,20,30,44,59,65,69,74,80

L40 ANSWER 17 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN

AB Activation of the thiol protease calpain results in proteolysis of focal adhesion-associated proteins and severing of cytoskeletal-integrin links. We employed a commonly used inhibitor of calpain, calpeptin, to examine a role for this protease in the reorganization of the cytoskeleton under a variety of conditions. Calpeptin induced stress fiber formation in both forskolin-treated REF-52 fibroblasts and serum-starved Swiss 3T3 fibroblasts. Surprisingly, calpeptin was the only calpain inhibitor of several tested with the ability to induce these effects, suggesting that calpeptin may act on targets besides calpain. Here we show that calpeptin inhibits **tyrosine phosphatases**, enhancing tyrosine phosphorylation particularly of paxillin. Calpeptin preferentially inhibits membrane-associated phosphatase activity. Consistent with this observation, in vitro phosphatase assays using purified glutathione S-transferase fusion proteins demonstrated a preference for the transmembrane protein-**tyrosine phosphatase**-alpha over the cytosolic protein-**tyrosine phosphatase**-1B. Furthermore, unlike wide spectrum inhibitors of **tyrosine phosphatases** such as pervanadate, calpeptin appeared to inhibit a subset of phosphatases. Calpeptin-induced assembly of stress fibers was inhibited by botulinum toxin C3, indicating that calpeptin is acting on a phosphatase upstream of the small GTPase Rho, a protein that controls stress fiber and focal adhesion assembly. Not only does this work reveal that calpeptin is an inhibitor of protein-**tyrosine phosphatases**, but it suggests that calpeptin will be a valuable tool to identify the phosphatase activity upstream of Rho.

L40 ANSWER 20 OF 84 MEDLINE on STN DUPLICATE 5

AB Developmental assembly of the renal microvasculature requires spatially and temporally coordinated migration, assembly, differentiation, and maturation of endothelial cells in the context of adjacent epithelial and **mesangial** cells. In this study, endothelial expression and distribution of the receptor **tyrosine phosphatase** ECRTP/DEP-1 were evaluated during and after developmental assembly of the

renal microvasculature. Monoclonal antibodies against ECRT/DEP-1 ectodomain epitopes localize its expression to membrane surfaces of endothelial cells in glomerular, peritubular capillary, and arterial renal sites of mature human and murine kidney. During kidney development, ECRT/DEP-1 immunostaining is evident on a subpopulation of metanephric mesenchymal cells and on putative progenitors of glomerular capillary endothelial cells early in their recruitment to developing glomeruli. ECRT/DEP-1 is prominently displayed on luminal membrane surfaces with punctate accumulations at inter-endothelial contacts that overlap with vascular endothelial-cadherin staining. ECRT/DEP-1 is recruited to inter-endothelial contacts in confluent cultured human renal and dermal microvascular endothelial cells, yet experimental dissociation of vascular endothelial-cadherin from endothelial junctional complexes fails to redistribute ECRT/DEP-1. These findings indicate that ECRT/DEP-1 is expressed in anticipation of glomerular capillary endothelial recruitment during development, and suggest that ECRT/DEP-1 ectodomain interacts with endothelial surface ligands that are engaged by cell-cell contact.

- L40 ANSWER 30 OF 84 MEDLINE on STN DUPLICATE 9  
 AB We investigated the relationship between protein tyrosine phosphorylation and bradykinin (BK) receptor activation in rat **mesangial** cells (MC). Stimulation of the B2 receptor resulted in a dual effect consisting of an independent activation and inhibition of tyrosine kinase activity (TKA). The activation was rapid and transient, reaching a peak value at 30 s whereas the inhibition was observed at 5 min and persisted up to 10 min. Treatments with pertussis-toxin and U73122 showed that only the BK-induced stimulation of TKA is dependent on phospholipase C activation via a pertussis-toxin sensitive G-protein. In addition, BK induced an increase in **tyrosine phosphatase** activity. Western-blot analysis demonstrated that the dual effect of BK on TKA was associated with both an increase and a decrease in tyrosine phosphorylation of the p125-focal adhesion kinase (FAK). Moreover, BK was able to reduce the maximal stimulated MC cell proliferation induced by fetal calf serum. These data show that in rat MC, B2 receptor stimulation activates and inhibits two independent tyrosine kinase signaling pathways associated with tyrosine phosphorylation of p125-FAK that might be implicated in MC proliferation.
- L40 ANSWER 44 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
- L40 ANSWER 59 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
- L40 ANSWER 65 OF 84 MEDLINE on STN DUPLICATE 22  
 AB Previously we found that rat **mesangial** cells express 3CH134/CL100 protein-**tyrosine phosphatase** (**PTPase**) in response to reactive oxygen intermediates (ROIs), and we now extend these studies to glomerulonephritis (GN), where ROI have been demonstrated to play a role. The rat homologue of 3CH134/CL100 was cloned from a rat macrophage cDNA library. The rat 3CH134/CL100 mRNA was strongly induced in the lung, liver, and heart the first day after birth, suggesting that hyperoxic adaption might be involved in the induction of the **PTPase** mRNA. In anti-glomerular basement membrane (GBM) antibody (Ab) GN in rats, the 3CH134/CL100 **PTPase** mRNA was expressed in glomeruli as early as 30 minutes after anti-GBM Ab injection. The 3CH134/CL100 mRNA expression was modulated by the ROI scavenger dimethylthiourea (DMTU), indicating that its induction was ROI related. In contrast to the glomerular lesion, **PTPase** mRNA expression was not induced in experimental tubulointerstitial nephritis. In situ hybridization suggested that **mesangial** and some infiltrating cells were the major glomerular cell sources of the **PTPase** mRNA. These results indicate that rat CCH134/CL100 **PTPase** is actively induced in glomeruli as part of an acute immune injury at least in part

related to oxidative stress. **PTPase** induction in GN and potentially other forms of inflammation may play an important regulatory role in protein kinase signaling pathways.

L40 ANSWER 69 OF 84 HCAPLUS COPYRIGHT 2005 ACS on STN

AB Oxidative stress-inducible protein **tyrosine phosphatase** in glomerulonephritis. Previously the authors found that rat **mesangial** cells express 3CH134/CL100 protein-**tyrosine phosphatase (PTPase)** in response to reactive oxygen intermediates (ROIs), and the authors now extend these studies to glomerulonephritis (GN), where ROI have been demonstrated to play a role. The rat homolog of 3CH134/CL100 was cloned from a rat macrophage cDNA library. The rat 3CH134/CL100 mRNA was strongly induced in the lung, liver, and heart the first day after birth, suggesting that hyperoxic adaptation might be involved in the induction of the **PTPase** mRNA. In anti-glomerular basement membrane (GBM) antibody (Ab) GN in rats, the 3CH134/CL100 **PTPase** mRNA was expressed in glomeruli as early as 30 min after anti-GBM Ab injection. The 3CH134/CL100 mRNA expression was modulated by the ROI scavenger dimethylthiourea (DMTU), indicating that its induction was ROI related. In contrast to the glomerular lesion, **PTPase** mRNA expression was not induced in exptl. tubulointerstitial nephritis. In situ hybridization suggested that **mesangial** and some infiltrating cells were the major glomerular cell sources of the **PTPase** mRNA. These results indicate that rat CCH134/CL100 **PTPase** is actively induced in glomeruli as part of an acute immune injury at least in part related to oxidative stress. **PTPase** induction in GN and potentially other forms of inflammation may play an important regulatory role in protein kinase signaling pathways.

L40 ANSWER 74 OF 84 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN  
DUPLICATE 27

L40 ANSWER 80 OF 84 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

=> log y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	19.73	19.94
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

STN INTERNATIONAL LOGOFF AT 11:23:38 ON 11 JUL 2005